1. **Print the names of all employees who work on the 10th floor and make less than $50,000.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
|  | \_E | P. | \_S |  |  | |  | | \_E | | \_D | |  | |  | |  | | \_D | |  | |  | | 10 | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Print the names of all managers who manage three or more departments on the same floor.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
|  | \_E | P. |  |  |  | |  | |  | |  | |  | |  | |  | | \_D1 | |  | | \_E | | \_F | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | | \_D2 | |  | | \_E | | \_F | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | | \_D3 | |  | | \_E | | \_F | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| \_D1 != \_D2 AND \_D1 != \_D3 AND \_D2 != \_D3 | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Print the names of all managers who manage ten or more departments on the same floor.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  |
|  | \_E | P. |  |  |  | |  | |  | |  | |  | |  | |  | | \_D | |  | | G(1).\_E | | G(2).\_F | | COUNT.\_D > 9 |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  |
|  | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |  |

1. **Give every employee who works in the Toy department a 10% raise.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
|  | \_E |  | U.\_S\*1.1 |  |  |  | | \_E | | \_D | |  | |  | |  | | \_D | | ’Toy’ | |  | |  | |  | |
|  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Print the names of the departments (in ascending order) that employee Santa works in.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
|  | \_E | ’Santa’ |  |  |  | |  | | \_E | | \_D | |  | |  | |  | |  | | P. | |  | |  | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Print the names and salaries of employees who work in both the Toy department and the Candy dept.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
|  | \_E | P. | P. |  |  | |  | | \_E | | \_D | |  | |  | |  | | \_D | | ’Toy’ | | ’Candy’ | |  | |  | |
|  |  |  |  |  |  | |  | | \_E | | \_D1 | |  | |  | |  | | \_D1 | |  | |  | |  | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Print the names of employees who earn a salary that is either less than $10,000 or more than $100,000.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
|  | \_E | P. | \_S |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| \_S < 10000 OR \_S > 100000 | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Print all of the attributes for employees who work in some department that employee Santa also works in.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
| P. | \_E |  |  |  |  | |  | | \_E | | \_D | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | \_E1 | ’Santa’ |  |  |  | |  | | \_E1 | | \_D | |  | |  | |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| \_E!= \_E1 | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Fire Santa.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
| D. | \_E | ’Santa’ |  |  |  | | D. | | \_E | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
|  | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Print the names of employees who make more than 20,000 and work in either the Video department or the Toy department.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
|  | \_E | P. | > 200000 |  |  | |  | | \_E | | \_D | |  | |  | |  | | \_D | | \_DN | |  | |  | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| DN = ’Video’ OR DN = ’Toy’ | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Print the name of each employee who earns more than the manager of the department that he or she works in.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
|  | \_E | P. | \_SE |  |  | |  | | \_E | | \_D | |  | |  | |  | | \_D | |  | | \_M | |  | |  | |
|  | \_M |  | \_SM |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| \_SE > \_SM | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |

1. **Print the names of all employees who work on the floor(s) where John works.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emp | eid | ename | salary |  |  | | Works | | eid | | did | |  | |  | | Dept | | did | | dname | | managerid | | floornum | |  | |
|  | \_E1 | P. |  |  |  | |  | | \_E1 | | \_D1 | |  | |  | |  | | \_D1 | |  | |  | | \_F | |  | |
|  | \_E2 | ’John’ |  |  |  | |  | | \_E2 | | \_D2 | |  | |  | |  | | \_D2 | |  | |  | | \_F | |  | |
|  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Conditions | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| \_E1 != \_E2 | | | | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |